SIEVE ANALYSIS

Location _____   Site No. _____

Watershed _____   Subwatershed _____

Contract No. _____   Contractor _____

Tested by _____ Date _____   Checked by _____

Source of material _____   Sampled depth: _____ to _____

Material tested: concrete aggregate ☐   drain fill ☐   filter ☐

Bid item No. _____ Reference contract specification _____

Coarse aggregate

Weight of container plus dry sample _____ lb

Weight of container _____ lb

Weight of dry sample (W) _____ lb

Sieve size	① Weight of sieve plus material retained (lb)	② Weight of sieve (lb)	③ Weight of material retained= ①−② (lb)	④ Material retained= (③÷W) x100 (%)	Cumulative		Specification limits (percent passing)
					⑤ Percent retained; subtotal of ④ (%)	⑥ Percent passing= 100%−⑤ (%)	
4 in.							
$3\frac{1}{2}$ in.							
3 in.							
$2\frac{1}{2}$ in.							
2 in.							
$1\frac{1}{2}$ in.							
1 in.							
$\frac{3}{4}$ in.							
$\frac{1}{2}$ in.							
$\frac{3}{8}$ in.							
No. 4							
No. 8							
Pan							

Fine aggregate

Weight of container and dry sample _____ lb

Weight of container _____ lb

Weight of dry sample (W) _____ lb

Sieve size	① Weight of sieve plus material retained (lb)	② Weight of sieve (lb)	③ Weight of material retained= ①−② (lb)	④ Material retained= (③÷W) x100 (%)	Cumulative		Specifi− cation limits (percent passing)
					⑤ Percent retained; subtotal of④ (%)	⑥ Percent passing= 100%−⑤ (%)	
$\frac{3}{8}$ in.							
No. 4							
No. 8							
No. 16							
No. 30							
No. 50							
No. 100							
No. 200							
Pan							
Fineness modulus					$\dfrac{1}{100}$ =		

Materials finer than No. 200 sieve by washing

1. Weight of container plus moist sample _____ g

2. Weight of container plus dry sample _____ g

3. Weight of container _____ g

4. Weight of dry sample (original) = 2 − 3 _____ g

5. Weight of container plus dry sample (after washing) _____ g

6. Weight of container _____ g

7. Weight of dry sample (after washing) = 5 − 6 _____ g

8. Material content finer than N. 200 sieve = [(4 − 7)÷ 4]*100 _____ %

_____

[1]Total of cumulative percent retained, excluding percent retained on No. 200 sieve and material in pan.